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1 Patching Catmull-Clark meshes

Jörg Peters

July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques SIGGRAPH '00**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: [pdf\(125.96 KB\)](#)

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Named after the title, the PCCM transformation is a simple, explicit algorithm that creates large, smoothly joining bicubic Nurbs patches from a refined Catmull-Clark subdivision mesh. The resulting patches are maximally large in the sense that one patch corresponds to one quadrilateral facet of the initial, coarsest quadrilateral mesh before subdivision. The patches join parametrically C2 and agree with the Catmull-Clark limit surface except in the imm ...

Keywords: CAD, curves & surfaces, geometric modeling

2 Exact evaluation of Catmull-Clark subdivision surfaces at arbitrary parameter values

Jos Stam

July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques SIGGRAPH '98**

Publisher: ACM Press

Full text available: [pdf\(356.03 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Catmull-Clark surfaces, eigenanalysis, linear algebra, parametrizations, subdivision surfaces, surface evaluation

3 Rapid evaluation of Catmull-Clark subdivision surfaces

Jeffrey Bolz, Peter Schröder

February 2002 **Proceeding of the seventh international conference on 3D Web technology Web3D '02**

Publisher: ACM Press

Full text available: [pdf\(910.23 KB\)](#)

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